

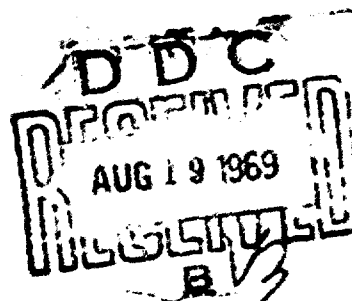
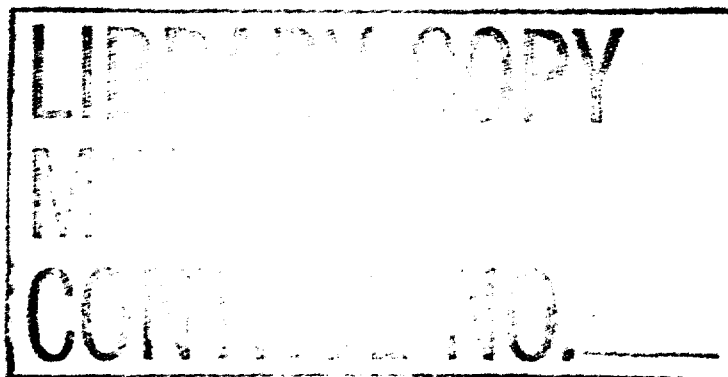
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FINAL REPORT

RE-ENTRY MODULE/ADAPTER INTERCONNECT  
FAIRING AERODYNAMIC HEATING WIND TUNNEL  
TESTS AEDC TUNNEL B

Report 058-ATD.02.01 Model Gemini B

Contract No. F04695-67-C-0023  
Laboratories: Gas Dynamics Laboratories

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MCDONNELL COMPANY  
LAMBERT-ST LOUIS MUNICIPAL AIRPORT  
802 S.W. ST LOUIS, MO 63108



ABSTRACT

Testing was conducted on three, 9 percent scale Gemini models and a 5.8-inch diameter hemisphere cylinder to obtain qualitative and semi-quantitative information on the local heat transfer rate induced on the Gemini afterbody by the module/adaptor interconnect fairing. These models were cast using RTV 60 silicone rubber. A 0.3-inch minimum thickness of rubber was maintained over an aluminum core.

The Gemini models were tested at 160°, 165°, and 170° angle of attack. The hemisphere cylinder was tested at 0° angle of attack. Testing was conducted at Mach 8 at Reynolds numbers per foot of 3.8, 3.5, 3.0, 2.0, and  $1.0 \times 10^6$ . Prior to each run, models were coated with Detecto-Temp paint. Color motion pictures were made during the test to obtain color change data, and still photographs of the models were taken after each run. Forty-seven runs were completed during Series I tests and 27 runs during Series II tests. The motion pictures and still photographs have been forwarded to Department 242 for analysis.

These tests were performed in Tunnel B of the von Karman Gas Dynamics Facility, Arnold Engineering Development Center on 10 August 1967 (Series I) and 4 November 1967 (Series II).

This report completes work on TR 058-ATD.02.01.

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MODEL Gemini B

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MODEL Gemini B

## 1. INTRODUCTION

Testing was conducted on 9 percent scale Gemini rubber models and a 5.8-inch-diameter hemisphere cylinder to obtain qualitative and semi-quantitative information on the local heat transfer rate induced on the Gemini afterbody by the module/adaptor interconnect fairing. The test was set up to obtain comparative information between the NASA GT2 fairing, the Gemini B low-profile fairing, and the model with no fairing. The analysis was to be made with theoretical heating rates on a reference hemisphere cylinder.

These tests were performed on models painted with Detecto-Temp paint in Tunnel B of the von Karman Dynamics Facility, Arnold Engineering Development Center (AEDC), on 10 August 1967 (Series I) and 4 November 1967 (Series II).

## 2. MODEL DESCRIPTION

Three 9 percent scale Gemini models were fabricated for the test program. Female plaster molds were made for each configuration of the Gemini to be tested. An existing 9 percent scale Gemini model was used as the master for the plaster molds. Inner cores were machined from 2024 T-3 aluminum and provided a gap of 0.3-inch minimum between the core and the mold. RTV 60 silicone rubber, which was exposed to a vacuum to remove air bubbles, was injected into the gap and allowed to cure at room temperature for 48 hours. The model was then removed from the mold and hand finished.

The Gemini configurations cast were:

- (1) Gemini with the NASA fairing;
- (2) Gemini with the Gemini B fairing; and
- (3) Gemini without a fairing.

A similar casting technique was employed to cast a 5.8-inch diameter hemisphere cylinder using a female fiberglass mold furnished by AEDC. The

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MODEL Gemini B

hemisphere cylinder was used as the calibration body during the test program. Sketches of the models are shown on pages 4 and 5.

All models were cast from the same batch of silicone rubber. The nominal thermal conductivity of the RTV 60 is 0.18 Btu-ft/hr-ft<sup>2</sup>°R.

### 3. TEST SETUP

The models were installed in Tunnel B at AEDC using the hardware shown in the sketches on pages 6 and 7. Roll locking devices were not provided on the models during Series I tests and the Gemini model with the NASA fairing was inadvertently rolled an additional +7° from its intended test position. A roll locking device was installed on the models for Series II tests.

Two DBM-5A Millikan motion picture cameras were used to record the test on color film. One camera was located in the top forward window, the other in the side forward window. A bank of four iodized quartz lamps was located in the upper aft window. A similar bank of lamps was located in the side aft window to provide tunnel lighting. The cameras were focused on the afterbody of the Gemini model with a bore sight tool. Camera location and lens setting remained in the same position for the entire test program.

### 4. TEST PROCEDURE

Grid lines were drawn on the clean Gemini model and the hemisphere cylinder to provide a reference for film interpretation. Film sequences were made of the Gemini model at 160°, 165°, and 170° angle of attack, and of the hemisphere cylinder at 0° angle of attack.

The models were painted with Detecto-Temp paint (915-0979) and allowed to dry. Next, the models were installed on the sting support system in the model installation room beneath the tunnel test section.



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When tunnel flow conditions were established, the motion picture cameras were started and the model was injected into the tunnel. An event marker was placed on the film when the model reached tunnel centerline. Visual observation of the model during the test for color changes and patterns was used as a guideline for the length of time the model remained in the tunnel.

After each test, the model was removed from the sting support system and a still color photograph was taken.

Testing was conducted on the four models at angles of attack of 160°, 165°, and 170° for the Gemini models and at 0° for the hemisphere cylinder. All tests were conducted at Mach 8 at Reynolds numbers per foot of 3.5, 3.0, 2.0, and  $1.0 \times 10^6$  for Series I tests and at Reynolds numbers per foot of 3.8, 3.0, and  $2.0 \times 10^6$  for Series II tests.

## 5. TEST RESULTS

Test results are:

- (1) color movies;
- (2) color negatives of still photographs; and
- (3) a run schedule consisting of configuration, test conditions, and movie identification.

The color movies and still photographs have been forwarded to Department 242 for analysis.

The run schedule is presented in tables on page 8 through 10.

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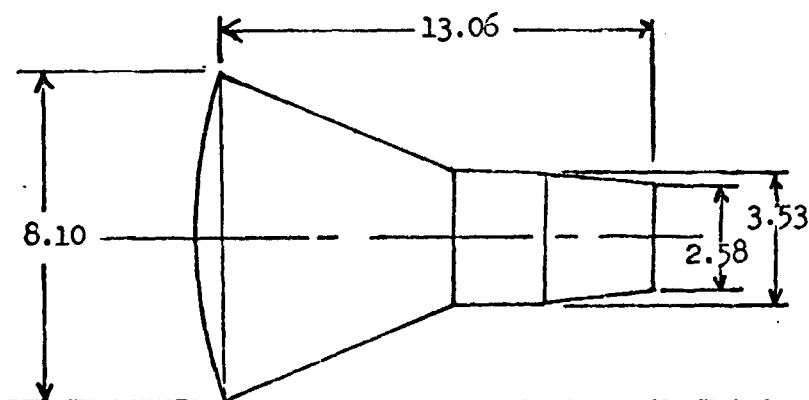
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PAGE 4

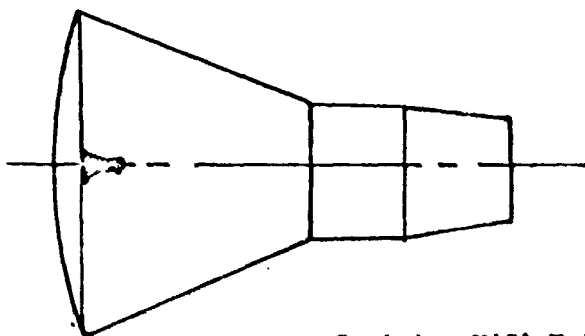
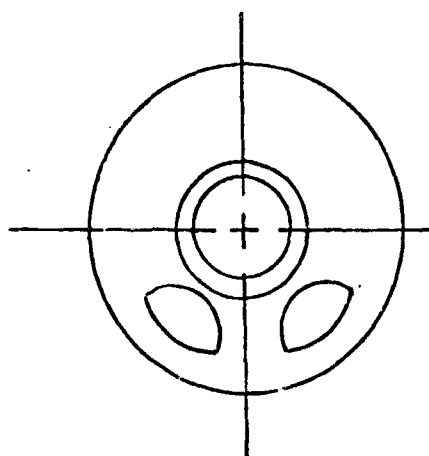
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MODEL Gemini B

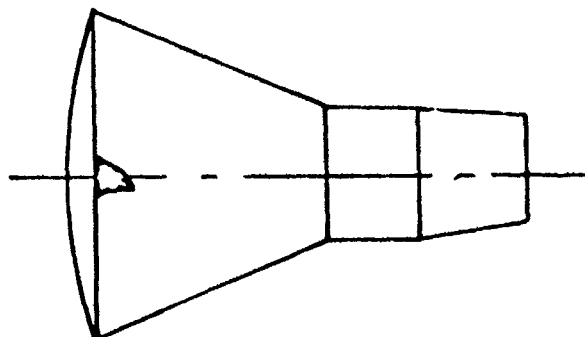
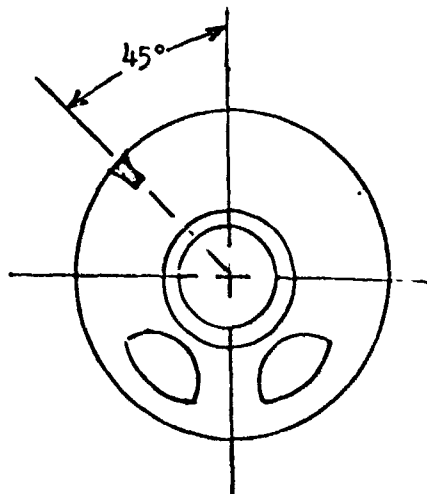
## 9 PERCENT SCALE GEMINI RUBBER MODELS



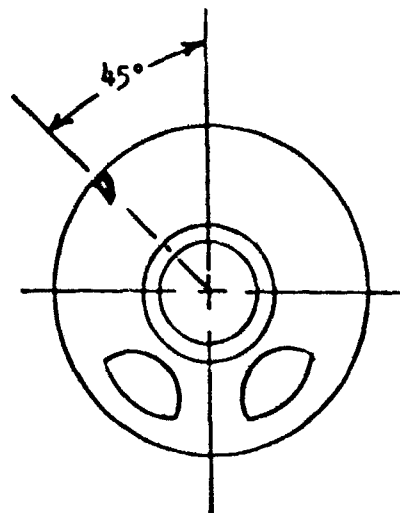
Gemini - No Fairing



Gemini - NASA Fairing



Gemini B - Fairing



Note: Model Side View Rolled 45° For Fairing Clarity

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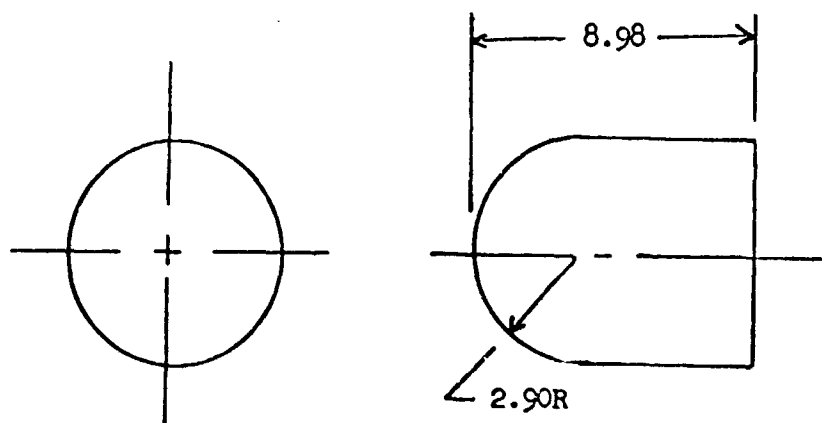
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MODEL Cemini B

HEMISPHERE CYLINDER



Material - RTV 60 Silicone Rubber

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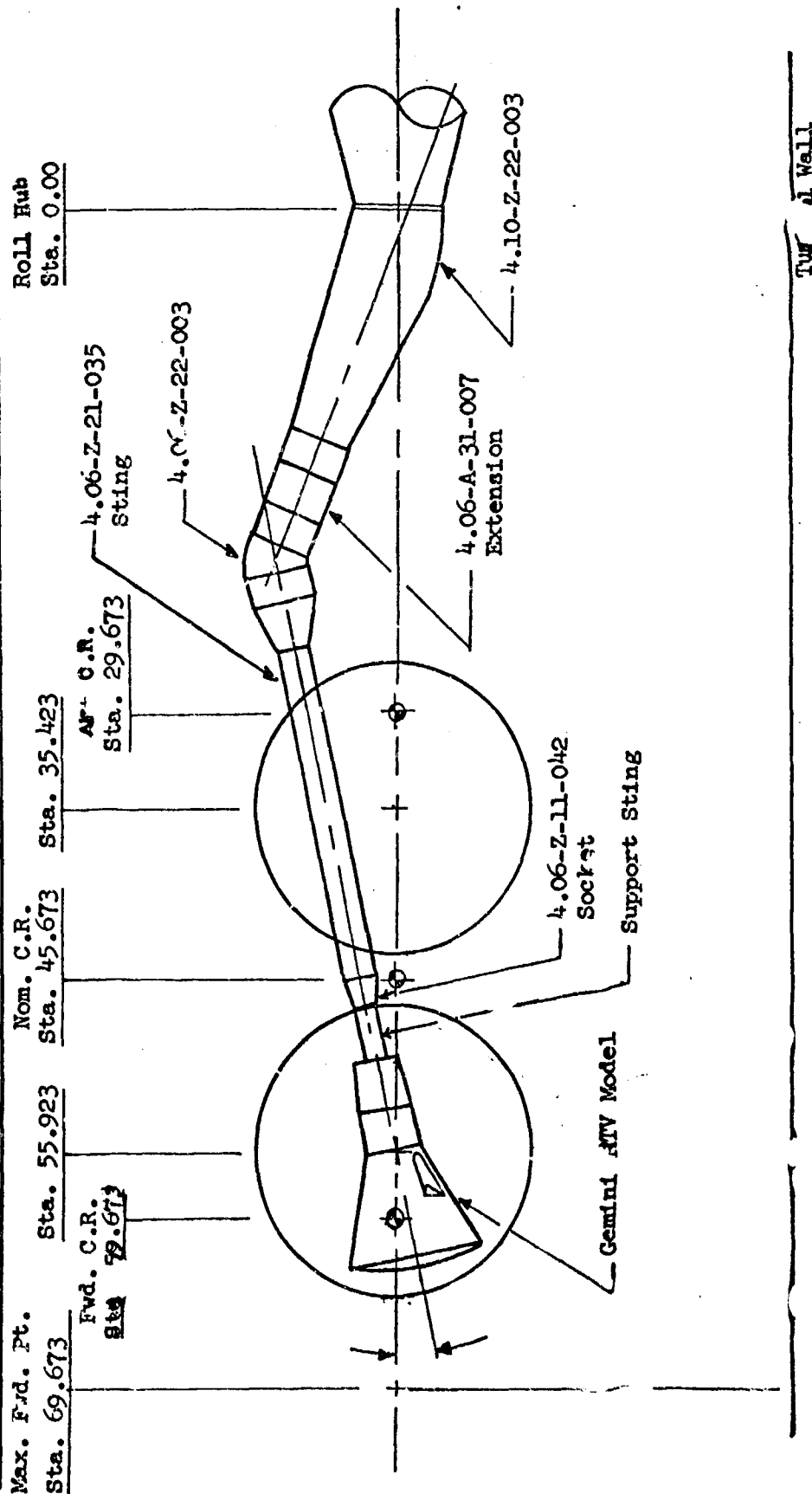
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MODEL Gemin<sup>®</sup> B

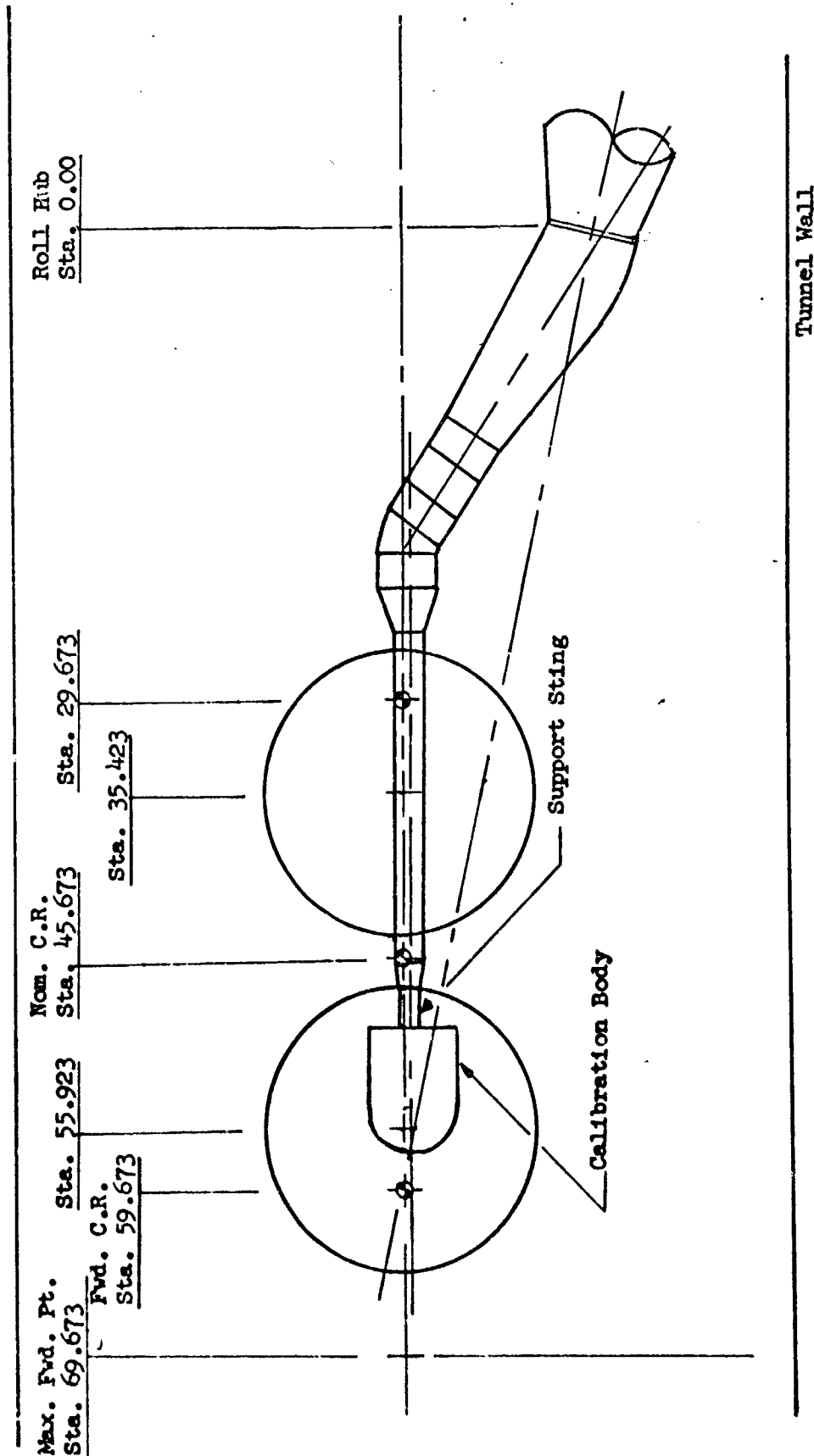
50-INCH MACH 8 TUNNEL (B) TEST SECTION



GEMINI INSTALLATION

FIGURE 1

50-INCH MACH 8 TUNNEL (B) TEST SECTION



HEMISPHERE-CYLINDER INSTALLATION

FIGURE 2

Note: Sting arrangement same as Figure 1

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Series I							RUN SCHEDULE
RUN	CONFIGURATION	TYPE RUN	M	Re/FT x 10 <sup>6</sup>	$\alpha$ (Deg)	P <sub>0</sub> (psia)	T <sub>0</sub> °R
1	Gemini + NASA Fairing	Heat Transfer	8.01	3.46	159.9	800.8	1348
2	Gemini + "B" Fairing			3.46	159.9	797.2	1342
3	Hemisphere Cylinder			3.45	160.0	803.2	1352
4	Gemini + NASA Fairing			3.44	164.9	798.6	1350
5	Gemini + "B" Fairing			3.43	165.0	799.2	1352
6	Gemini			3.45	166.5	800.0	1350
7	Hemisphere Cylinder			3.45	-0.1	800.2	1349
8	Gemini + "B" Fairing			3.45	170.1	800.2	1348
9	Gemini + NASA Fairing			3.48	169.9	800.2	1340
10	Gemini + "B" Fairing			3.50	160.0	799.0	1338
11	Gemini + NASA Fairing		Y	3.52	160.0	802.8	1333
12	Gemini + NASA Fairing		8.00	3.98	159.9	670.5	1324
13	Gemini + "B" Fairing			3.01	160.0	672.3	1318
14	Hemisphere Cylinder			2.98	0	669.1	1312
15	Gemini + NASA Fairing			2.99	164.9	668.3	1315
16	Gemini + "B" Fairing			2.99	165.0	670.4	1325
17	Gemini			2.96	165.0	671.9	1332
18	Gemini + NASA Fairing			2.98	169.9	673.4	1320
19	Gemini + "B" Fairing			2.95	170.0	667.0	1330
20	Hemisphere Cylinder		Y	2.95	170.0	667.9	1330
21	Gemini + NASA Fairing		7.97	1.90	160.0	416.6	1311
22	Gemini + "B" Fairing			1.96	159.9	424.6	1302
23	Hemisphere Cylinder			1.95	+0.1	421.1	1299
24	Gemini + NASA Fairing			1.95	164.9	420.7	1298
25	Gemini + "B" Fairing	Y	Y	1.96	164.9	422.1	1295

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RUN SCHEDULE									Movie Identification			
No (a)	T <sub>0</sub> °R	P <sub>01</sub> (psia)	P <sub>∞</sub> (psia)	V <sub>∞</sub> Ft/Sec.	q <sub>∞</sub> (psia)	e <sub>∞</sub> Slug/ft <sup>3</sup>	T <sub>tw</sub> °R	RUN	Side		Top	
									Reel	I.D. No.	Reel	I.D. No.
0.8	1348	6.76	.0814	3875	3.65	$\times 10^{-5}$ 7.00	571	1	1	04410	1	04411
0.2	1342	6.73	.0810	3866	3.64	7.00	571	2				
0.2	1352	6.78	.0816	3880	3.66	7.00	572	3				
0.6	1350	6.74	.0811	3878	3.64	6.98	572	4				
0.2	1352	6.76	.0812	3880	3.65	6.97	572	5				
0.0	1350	6.75	.0813	3878	3.65	6.99	573	6			↓	↓
0.2	1349	6.75	.0813	3876	3.65	6.99	572	7			2	04412
0.2	1348	6.75	.0813	3875	3.65	7.00	572	8	↓	↓		
0.2	1340	6.75	.0813	3863	3.65	7.04	572	9	2	04413		
0.0	1336	6.74	.0812	3857	3.65	7.05	572	10				
0.8	1333	6.76	.0816	3853	3.66	7.10	572	11				
0.5	1324	5.69	.0687	3840	3.08	6.01	569	12				
0.3	1316	5.70	.0689	3831	3.08	6.05	568	13				
0.1	1308	5.68	.0685	3837	3.07	6.00	568	14				
0.3	1318	5.67	.0685	3831	3.07	6.01	568	15			↓	↓
0.4	1325	5.71	.0689	3841	3.09	6.02	568	16			3	04414
0.9	1332	5.70	.0690	3851	3.08	5.98	568	17				
0.4	1320	5.72	.0690	3845	3.09	6.01	568	18	↓	↓		
0.7	1330	5.67	.0684	3848	3.06	5.96	568	19	3	04415		
0.9	1330	5.67	.0684	3848	3.06	5.96	568	20				
0.6	1311	5.60	.0437	3820	1.94	3.83	562	21				
0.0	1302	5.67	.0446	3807	1.96	3.94	561	22				
0.1	1299	3.64	.0442	3802	1.97	3.91	561	23	↓	↓	↓	
0.7	1298	3.63	.0442	3800	1.96	3.91	560	24	4	04417	4	04416
0.1	1295	3.64	.0443	3796	1.97	3.93	560	25	↓	↓	↓	↓

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Series I							RUN SCHE
RUN	CONFIGURATION	TYPE RUN	M	Re/Ft $\times 10^6$	$\alpha$ (Deg)	P <sub>0</sub> (psia)	T <sub>0</sub> °R
26	Gemini	Heat Transfer	7.97	1.97	165.0	423.7	1296
27	Gemini + NASA Fairing			1.93	170.1	421.1	1306
28	Gemini + "B" Fairing			1.96	170.0	422.3	1298
29	Hemisphere Cylinder		↓	1.96	0	420.1	1293
30	Gemini + NASA Fairing		7.92	0.95	159.9	191.8	1258
31	Gemini + "B" Fairing			0.97	159.9	191.2	1238
32	Hemisphere Cylinder			0.98	0	191.2	1227
33	Gemini + NASA Fairing			0.99	165.0	192.6	1224
34	Hemisphere Cylinder			0.97	0	190.0	1232
35	Gemini + "B" Fairing			0.96	165.0	191.0	1242
36	Gemini			0.97	164.9	191.4	1250
37	Gemini + NASA Fairing			0.95	170.0	190.6	1253
38	Gemini + "B" Fairing			0.94	170.0	188.9	1251
39	Hemisphere Cylinder			0.96	0.1	191.0	1249
40	Gemini + "B" Fairing		↓	0.97	165.1	192.2	1244
41	Gemini + "B" Fairing		8.01	1.95	165.1	400.2	1353
42	Gemini + NASA Fairing			1.93	165.1	401.0	1357
43	Gemini + "I" Fairing			3.38	165.1	797.0	1300
44	Gemini + NASA Fairing			3.45	165.1	800.0	1350
45	Gemini + "B" Fairing			3.47	159.9	801.0	1347
46	Gemini + NASA Fairing			3.44	160.1	795.1	1340
47	Hemisphere Cylinder		↓	3.46	0.1	801.2	1349
Series II							
1	Gemini + NASA Fairing	Heat Transfer	8.02	1.95	165.1	400.2	1353
2	Gemini + "I" Fairing	↓	↓	3.38	165.1	797.0	1300

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MODEL Gemini B

# RUN SCHEDULE

## Movie Identification

Run	T <sub>0</sub> °R	P <sub>01</sub> (psia)	P <sub>00</sub> (psia)	V <sub>00</sub> Ft/Sec.	q <sub>00</sub> (psia)	P <sub>00</sub> Slug/Ft <sup>3</sup> x 10 <sup>-5</sup>	T <sub>tw</sub> °R	RUN	Side		Top	
									Reel	I.D. No	Reel	I.D. No.
1	1296	3.66	.0445	3798	1.98	3.94	560	26	4	04417	4	04416
2	1306	3.64	.0442	3812	1.97	3.89	560	27	↓	↓	↓	↓
3	1298	3.65	.0443	3801	1.97	3.93	560	28	↓	↓	5	04418
4	1293	3.63	.0441	3793	1.96	3.92	560	29	5	04419	↓	↓
5	1258	1.70	.0210	3740	0.92	1.89	552	30	↓	↓	↓	↓
6	1238	1.70	.0209	3710	0.92	1.91	551	31	↓	↓	6	04420
7	1227	1.70	.0209	3694	0.92	1.94	550	32	6	04421	↓	↓
8	1224	1.71	.0211	3689	0.92	1.96	550	33	↓	↓	↓	↓
9	1232	1.69	.0208	3701	0.91	1.92	550	34	↓	↓	7	04422
10	1242	1.70	.0209	3716	0.92	1.91	550	35	↓	↓	↓	↓
11	1250	1.71	.0211	3728	0.93	1.92	550	36	↓	↓	↓	↓
12	1253	1.69	.0208	3732	0.92	1.89	550	37	7	04423	8	04424
13	1251	1.68	.0206	3730	0.91	1.88	550	38	↓	↓	↓	↓
14	1249	1.70	.0210	3727	0.92	1.91	550	39	↓	↓	↓	↓
15	1244	1.71	.0211	3719	0.92	1.92	550	40	8	04425	9	04426
16	1333	6.70	.0610	3853	3.66	7.10	566	41	↓	↓	10	04428
17	1357	6.77	.0614	3888	3.66	6.96	569	42	↓	↓	↓	↓
18	1306	6.73	.0610	3900	3.64	6.86	570	43	9	04427	↓	↓
19	1350	6.75	.0613	3876	3.65	6.99	571	44	↓	↓	↓	↓
20	1347	6.77	.0614	3873	3.66	7.02	571	45	↓	↓	11	04429
21	1340	6.71	.0608	3875	3.63	6.95	571	46	↓	↓	↓	↓
22	1349	6.76	.0614	3876	3.66	7.00	571	47	↓	↓	↓	↓
Initial Model Temp.												
23	1335	7.54	.0906	3928	4.08	7.61	525	1	1	6010	1	6015
24	1306	7.53	.0905	3940	4.07	7.53	525	2	↓	↓	↓	↓

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Series II								RUN SCHEDULE	
RUN	CONFIGURATION	TYPE RUN	M	Re/Ft x 10 <sup>6</sup>	$\alpha$ (deg)	P <sub>0</sub> (psia)	T <sub>0</sub> °R		
3	Hemisphere Cylinder	Heat Transfer	8.02	3.66	0	899.0	1393		
4	Gemini + NASA Fairing			3.73	165	898.8	1382		
5	Gemini + "B" Fairing			3.75	165	900.0	1378		
6	Hemisphere Cylinder			3.73	0	899.0	1382		
7	Gemini + NASA Fairing			3.70	170	894.1	1388		
8	Gemini + "B" Fairing			3.72	170	898.5	1383		
9	Hemisphere Cylinder		↓	3.82	0	901.0	1381		
10	Gemini + NASA Fairing		8.00	2.87	160	666.4	1354		
11	Gemini + "B" Fairing			2.99	160	672.4	1324		
12	Hemisphere Cylinder			2.94	0	664.4	1329		
13	Gemini + NASA Fairing			2.92	165	669.7	1342		
14	Gemini + "B" Fairing (Roll Angle Incorrect)			2.92	165	669.0	1340		
15	Gemini + NASA Fairing			3.01	170	671.6	1319		
16	Gemini + "B" Fairing			2.94	170	671.5	1338		
17	Hemisphere Cylinder			2.93	0	669.7	1338		
18	Gemini + NASA Fairing			2.95	165	672.9	1337		
19	Gemini + "B" Fairing (Repeat of Run 14)			2.94	165	672.0	1336		
20	Hemisphere Cylinder			2.94	0	670.9	1336		
21	Gemini + NASA Fairing (Model Rolled +7°)		↓	2.95	160	673.2	1340		
22	Gemini + "B" Fairing		7.97	1.94	160	422.3	1306		
23	Gemini + NASA Fairing			1.98	160	421.2	1305		
24	Hemisphere Cylinder			1.95	0	419.6	1296		
25	Gemini + "B" Fairing			1.92	165	419.6	1306		
26	Gemini + NASA Fairing			1.90	165	416.3	1316		
27	Hemisphere Cylinder	↓	↓	1.91	0	420.7	1316		

NOTES:

A

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RUN SCHEDULE

a)	T <sub>0</sub> °R	P <sub>c1</sub> (psia)	P <sub>∞</sub> (psia)	V <sub>∞</sub> Ft/Sec	q <sub>∞</sub> (psia)	Q <sub>∞</sub> Slug/Ft <sup>3</sup>	Initial Model Temp.	RUN	Side		Top	
									Reel	I.D. No.	Reel	I.D. No.
0	1393	7.54	.0906	3939	4.07	x 10 <sup>-5</sup> 7.56	528	3	1	4616	1	4615
8	1382	7.54	.0906	3924	4.07	7.62	536	4				
0	1378	7.55	.0907	3918	4.08	7.65	536	5				
0	1362	7.54	.0906	3924	4.07	7.62	530	6				
1	1368	7.54	.0906	3932	4.08	7.59	530	7			↓	↓
5	1363	7.54	.0905	3925	4.07	7.61	532	8	↓	↓	2	4614
0	1361	7.56	.0908	3894	4.09	7.70	528	9	2	4617		
4	1354	5.65	.0683	3883	3.05	5.83	539	10				
4	1324	5.70	.0689	3840	3.08	6.02	528	11				
4	1329	5.64	.0681	3847	3.05	5.92	527	12				
7	1342	5.68	.0686	3866	3.07	5.91	531	13				
0	1340	5.67	.0685	3863	3.07	5.92	534	14				
8	1319	5.72	.0688	3832	3.08	6.04	534	15	↓		↓	↓
5	1338	5.70	.0688	3860	3.08	5.95	535	16	↓	↓	3	4613
7	1338	5.68	.0688	3860	3.07	5.93	532	17	3	4618		
9	1337	5.71	.0689	3858	3.08	5.96	539	18				
0	1336	5.74	.0688	3860	3.08	5.95	537	19				
9	1336	5.69	.0687	3860	3.07	5.94	534	20				
2	1340	5.71	.0690	3863	3.08	5.95	535	21				
3	1306	3.64	.0443	3812	1.97	3.9	517	22			↓	↓
2	1285	3.63	.0442	3732	1.96	3.95	517	23	↓	↓	4	4612
0	1290	3.62	.0440	3739	1.95	3.90	535	24	4	4619		
4	1300	3.62	.0441	3812	1.95	3.87	538	25				
3	1310	3.61	.0439	3827	1.95	3.83	537	26				
7	1310	3.63	.0442	3827	1.96	3.81	538	27	↓	↓	↓	↓

B

DATE \_\_\_\_\_

REVISED \_\_\_\_\_

REVISED \_\_\_\_\_

PAGE 11REPORT 058-ATD.02.01MODEL Gemini BAPPENDIX A - REFERENCESModel Drawings

<u>Drawing Number</u>	<u>Description</u>
58W03-00066	General Assembly
58W03-00067	Casting Core - Gemini "B"
58W03-00068	Support Sting
58W03-00069	Core - Hemisphere Cylinder
58W03-00070	Hemisphere Cylinder Casting Assembly
58W03-00071	Female Mold - Gemini "B"
58W03-00072	Tunnel Installation
58W03-00073	Fairing - Gemini "B"
58W03-00062	Fairing - NASA GT2

Related Test

TR 052-ATD.02	Gemini B Re-Entry Module/Adapter Attachment Fairing Aerodynamic Heating Wind Tunnel Test
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